TRANSLATION PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P12514WO		FOR	FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.		Internat	International filing date (day/month/year)		Priority date (day/month/year) 31.10.2003			
PCT/EP2004/052581		31 20.	20.10.2004					
International Patent Classification (IPC) or national classification and IPC H04L12/56								
Applicant SIEMENS AKTIENGESELLSCHAFT								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This	s REPORT consists of	a total of 4		sheets, including	g this cover sheet.			
3. This	s report is also accomp	anied by ANNEXES	S, comprising:					
a.	(sent to the app	plicant and to the Ini	ternational Bureau) a t	total of 10	sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b.		ernational Rureau o	(m/b) a total of (indicate	styne and number	of electronic carrier(s))			
0.	(sem to the 1m	етинопин Битеин О	my) a total of (mulcate	type and number				
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This	s report contains indica	ations relating to the	following items:					
	Box No. I	Basis of the report						
	Box No. II	Priority						
	Box No. III	Non-establishment o	f opinion with regard t	o novelty, inventi	ve step and industrial applicability			
	Box No. IV	Lack of unity of inve	ention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain documents ci	ited					
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of	completion of thi	s report				
Name and mailing address of the IPEA/EP			Authori	zed officer				
Facsimile No.			Telepho	Telephone No.				

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International application No.
PCT/EP2004/052581

Box N	No. I	Basis of the report		
	_	gard to the language, this report is based on the internatied under this item.	ional application in the language in	which it was filed, unless otherwise
		his report is based on translations from the original languhich is the language of a translation furnished for the pur		· ·
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.	.4)	
		international preliminary examination (Rule 55.2 and	d/or 55.3)	
	receiving this repo		• • •	· ·
L F	abla	ne international application as originally filed/furnished		
L	∠\\ the	ne description:		
	pa	ages 1,2,4,5,7-10,12-21		as originally filed/furnished 15.03.2005 with letter
	pa	ages* 3,3a,6,11,11a	received by this Authority on	of 14.03.2005
	pa	ages*	received by this Authority on	
	\(\simeg\) the	ne claims:		
	no	os.		as originally filed/furnished
	no	os.*	as amended (togethe	er with any statement) under Article 19
	no	os.* <u>1-10</u>	received by this Authority on	15.03.2005 with letter of 14.03.2005
	no	os.*	received by this Authority on	
	\tag{the}	ne drawings:		
	sh	neets 1/2,2/2		as originally filed/furnished
	sh	neets*	received by this Authority on	
		neets*		
Γ	\neg			
<u> </u>		sequence listing and/or any related table(s) – see Supples	mental box Relating to Sequence 1	Listing.
3.	△ Th	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos. 11		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amer ney have been considered to go beyond the disclosure as	<u>.</u>	
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If item 4	4 applies, some or all of those sheets may be marked "su		

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Вох		ned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; ns and explanations supporting such statement		
1.	Statement			
	Novelty (N) Claims		1-10	YES
		Claims		_ NO
	Inventive step (IS)		1-10	YES
		Claims		_ NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		_ NO

2. Citations and explanations (Rule 70.7)

Claim 1 relates to a process for determining a route between a first radio station and a second radio station (mobile station) via other radio stations, in which process a radio device (base station) which knows the neighbourhood relationships between the radio stations determines some of the radio stations in the route and sends information on these radio stations to one or more radio stations among these radio stations. After receiving this information, the radio stations determine the remaining radio stations in the route.

This type of process, in which the radio device determines only parts of the route, rather than the entire route between the first and the second radio stations, and in which the radio stations themselves determine the remaining route, cannot be found in the available documents, nor is it suggested by these documents, either alone or in combination.

In the known document **D1**, by YU-CHING HSU et alia, "Base-centric routing protocol for multihop cellular networks", which represents the closest prior art, the route is either entirely determined by the radio device, in

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

accordance with a centralised route determination process, or is entirely determined by the radio stations, in accordance with a decentralised route determination process. D1 does not suggest mixing the centralised and the decentralised route determination processes.

The subject matter of claim 1 should therefore be considered novel and inventive (PCT Article 33(2) and 33(3)). The subject matter of claim 1 is also industrially applicable.

The above reasoned statement likewise applies to independent claim 10, which defines a radio device specially designed for carrying out the process as per claim 1. Claim 10 thus likewise meets all the requirements of PCT Article 33.

Dependent claims 2-9 contain advantageous developments of the subject matter of claim 1 and thus likewise meet all the requirements for novelty, inventive step and industrial applicability.